



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. : 10/802,505 Confirmation No. 3671
Applicants : Sherif Safwat, et al.
Filed : March 16, 2004
Title : CELL DESIGN FOR A TRAWL SYSTEM
AND METHODS
TC/A.U. : 3643
Examiner : Darren W. Ark

Docket No. : 2195CON2
Customer No.: 23320

Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

To fully discharge Applicant's duty of good faith and candor under 37 C.F.R. § 1.56 during prosecution of the patent application identified above, Applicant hereby:

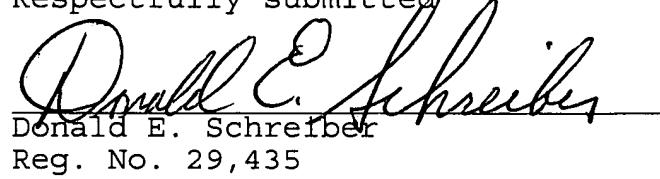
1. identifies references on an accompanying "Information Disclosure Statement by Applicant" form PTO/SB/08A; and
2. submits the accompanying copies of the references identified therein.

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Appl. No. 10/802,505
Response Dated July 16, 2004
Reply to June 25, 2004 Office Action

Applicant believes that no fee is required for filing the accompanying "Information Disclosure Statement by Applicant" form PTO/SB/08A. However, if any fee is due, the Commissioner for Patents is hereby authorized to charge such fee to Deposit Account No. 19-0735. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted


Donald E. Schreiber
Reg. No. 29,435

Dated: 16 July, 2004

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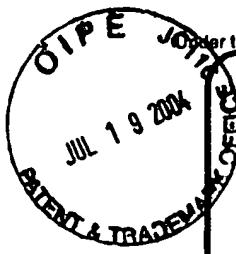
Telephone: (530) 546-6041

Attorney for Applicant(s)

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PTO/SB/08A (10-96)
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

6

Complete If Known

Application Number	10/802,505
Filing Date	March 16, 2004
First Named Inventor	SAFWAT, Sherif
Group Art Unit	3643
Examiner Name	Darren W. Ark

Attorney Docket Number **2195CON2**

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		1,026,544		YAMAMOTO	05/14/12	
		1,552,269		BROCKER	09/01/25	
		1,689,119		EVANS	10/23/28	
		1,695,595		LARNED	12/18/28	
		1,897,224		ANDREWS	02/14/33	
		2,162,115		PAULS	06/13/39	
		2,511,057		GUTHRIE, et.al.	06/13/50	
		2,590,586		THOMPSON, Jr., et.al.	03/25/52	
		2,792,617		HALLER	05/21/57	
		2,816,386		HARRIS, et.al.	12/17/57	
		2,823,576		NEEDHAM, et.al.	02/18/58	
		2,999,413		MOMOI	09/12/61	
		3,041,915		RYFFEL	07/03/62	
		3,102,357		LUKETA	09/03/63	
		3,129,632		STARR	04/21/64	
		3,131,501		LUKETA	05/05/64	
		3,153,297		GRABOWSKY	10/20/64	
		3,308,567		LUKETA	03/14/67	
		3,369,317		BROWNELL	02/20/68	
		3,606,815		YAMASHITA, et.al.	09/21/71	

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴				
		DE	3543253	A1 Perevoschikov, et al.	06/1987		
		FR	2521065	Cassert, et al.	08/1983		
		JP	57-13660		03/1982		
		JP	59-71630		04/1984		
		JP	60-30630		02/1985		
		JP	60-39782	Horie	03/1982		
		JP	60-88160		05/1985		
		JP	60-139860		07/1985		
		JP	61-386	Horie	08/1986		

Examiner
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Date
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Sheet	2	of	6	Application Number	10/802,505
				Filing Date	March 16, 2004
				First Named Inventor	SAFWAT, S.
				Group Art Unit	3643
				Examiner Name	Darren W. Ark
				Attorney Docket Number	2195CON2

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/802,505
(use as many sheets as necessary)				Filing Date	March 16, 2004
Sheet	3	of	6	First Named Inventor	SAFWAT, Sherif
				Group Art Unit	3643
				Examiner Name	Darren W. Ark
				Attorney Docket Number	2195CON2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Batill, S. M., et al., "An Experimental Investigation of the Flow Field Around Yawed Stranded Cables," Contract No. N00014-83K-0239,
		Rept. No. CR 2210-89-1, University of Notre Dame, Notre Dame, Indiana (1989)
		Batill, S. M., et al., "Flow Field Studies on Yawed, Stranded Cables," in Flow Visualization, Reznicek V. R. ed., Hemisphere Publishing Corp., pp.391-396 (1990)
		Batill, S. M., et al., "Detailed Near Surface Flow ABout Yawed, Stranded Cables", Contract No. N00014-83K-0239, Rep. No. CSS CR 1210-92-1, University of Notre Dame, Notre Dame, Indiana (1992)
		Breidenthal, R., Phus. Fluids, Vol. 23, No. 10, p. 1931 (1980)
		Cermak, J.E., "Aerodynamics of Buildings," Annual review of Mechanics 8 p. 99 (1976)
		Diggs, J. S., "Hydrodynamic Characterization of Various Towed Array Towcables," Tech. Rpt. No. 128, Contract No. N00600-73-D-1077,
		Mar, Incorporated (1974)
		Endeco, Inc., "Haired Faired Cable," Endeco Towed Systems (date unknown)

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Sheet	4	of	6	First Named Inventor	SAFWAT, Sherif
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				Examiner Name	Darren W. Ark
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Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Flugwiss, Z., Weltraumforsch 14, p. 40 (date unknown)
		Garner, J. "How to Make and Set Nets or The Technology of Netting," Fishing News Books Ltd., 1962
		Hoerner, S. F., "Fluid-Dynamic Drag," published by author, pp. 3-2 and 4-4 (1965).
		Hoerner, S. F., "III-Pressure Drag," published by author, pp. 3-7,3-9, 3-11 and 3-27 (1965).
		Hoerner, S. F., "IV-Structures," published by author, p.4-5 (1965).
		Hunt, J. C. R., "Industrial and Environmental Fluid Mechanics," Annual Review of Fluid Mechanics 23, pp. 10-12 (1991).
		Klust, G., "Netting Materials for Fishing Gear", Fishing News Books Ltd., 1973
		"Knuckleballs," Scientific American, p. 22 (1987)
		Lisoski graph, Fig. 7, Experimental Lift and Drag Histories for Bluff Plate, p. 95 (1993).
		Mehta, R. D., "Aerodynamics of Sports Balls," Ann. Rev. Fluid Mech. 17:151-189 (1985).
		Nebres, J. V., "Flow Around Yawed Stranded Cables," Master's Thesis, University of Notre Dame, Notre Dame, Indiana (1989).

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		Nebres, J. V., "Wake Similarity and Vortex Formation for Two-Dimensional Bluff Bodies," Doctoral Dissertation, University of Notre Dame, Notre Dame, Indiana (1992)
		Oceanographic Ribbon Fairing Cable, The Rochester Corporation, Cat-82 (date unknown)
		Roshko, A., "Perspectives on Bluff Body Aerodynamics," Second International Colloquium on Bluff Body Aerodynamics and Application, Melbourne, 7-10, pp. 81 (1992)
		"On the Persistence of Transition in the Near-Wake," pp. 607 and 609. Problems of Hydrodynamics and Continuum Mechanics, Soc. Industrial and Appl. Math., Philadelphia (1969)
		"Examples of Spectrum products, specific projects and end-users," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown)
		"Fairing and Anti-Stacking Ring Assemblies for Tow Cables," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown)
		Williamson, C. H. K., "Oblique and Parallel Modes of Vortex Shedding in the Wake of a Circular Cylinder at Low Reynolds Numbers," Journal of Fluid Mechanics 206:595 and 597, 1989

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<p>Substitute for form 1449B/PTO</p> <h2>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p>(use as many sheets as necessary)</p>				<p>Complete if Known</p> <table border="1"> <tr> <td>Application Number</td> <td>10/802,505</td> </tr> <tr> <td>Filing Date</td> <td>March 16, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>SAFWAT, Sherif</td> </tr> <tr> <td>Group Art Unit</td> <td>3643</td> </tr> <tr> <td>Examiner Name</td> <td>Darren W. Ark</td> </tr> <tr> <td>Attorney Docket Number</td> <td>2195CON2</td> </tr> </table>		Application Number	10/802,505	Filing Date	March 16, 2004	First Named Inventor	SAFWAT, Sherif	Group Art Unit	3643	Examiner Name	Darren W. Ark	Attorney Docket Number	2195CON2
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Sheet	6	of	6														

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